

CASE STUDY
LED TECHNOLOGY
WIRELESS CONTROLS



WESTWOOD VILLAGE

Shopping center rings up more than \$15,900 in savings, along with plenty of positive feedback.

Like many commercial developments, Westwood Village used metal-halide lamps for their outdoor lighting. They were unhappy with the uneven, poor-quality light and unnatural color, and maintenance was costly. The operations team had to manually check for lamp failures, and replacements meant calling in electricians and a lift truck.

Advancements in LED technology allowed the shopping center to finally upgrade their pole fixtures. At the same time, they installed a web-based wireless control system for greater energy savings. The system enables them to vary lighting levels on a timed schedule—running lights at 75% output at dusk and dimming them to 50% after midnight. The team can also monitor and make adjustments remotely.

A rebate from Seattle City Light covered 50% of the project's cost.

“We are pleased with the results of our new lighting, and our customers, tenants and neighbors have noticed the difference. The wireless control system is a great feature, letting us dim the lights at specific times in specific areas to maximize energy efficiency.”

ANDY THOMPSON
Operations Director
Westwood Village

**REBATES
AVAILABLE**
(206) 684-3800
CALL TODAY

ABOUT WESTWOOD VILLAGE

- Located in West Seattle
- Opened in 1966
- 400,000 square feet of leasing space

PROJECT SCOPE

- Converted 97 outdated metal-halide pole fixtures to LEDs
- Installed wireless control system across seven lighting zones
- Partners included Northwest Native Electrical and Stoneway Electric Supply

RESULTS

- Estimated savings: \$15,928 per year (199,098 kWh)
- Maintenance costs reduced by 90%
- Lighting quality vastly improved
- Ability to monitor, control and adjust lighting levels remotely
- Life of LEDs extended by dimming lights
- Retail staff and customers feel safer

WESTWOOD VILLAGE UPGRADE	
Total cost	\$103,939
Seattle City Light rebate	\$51,765
Customer cost after rebate	\$52,174
Energy cost savings in the first year*	\$15,928
Simple payback	3.3 years

*Cost savings after completion of both projects, calculated using actual customer rate (including demand charges) of \$0.08 per kWh (rate code for Small General Service Rate Class).

LEDs

Today's LEDs are fast replacing incandescent, halogen, metal-halide, and high-output fluorescent lamps. Continuous improvements in longevity, light quality, and pricing make these energy-efficient lamps a great choice for retrofit projects.

Wireless control systems

With these advanced, web-based systems, businesses can program lighting levels on a timed schedule, and remotely monitor and adjust lighting—further reducing energy use and costs.

Rebates for energy conservation

Seattle City Light offers rebates as an incentive to customers to reduce their electricity use. When customers use less electricity, it helps us conserve our hydro resources and avoid the expense of building new power plants or buying electricity on the open market.

Start saving now

Like Westwood Village, your business could also benefit from Seattle City Light's rebates for upgrades to energy-saving lighting and equipment. Learn how you can lower your energy costs. Contact an Energy Advisor at **(206) 684-3800** or **SCLEnergyAdvisor@seattle.gov** for a free assessment.

TECHNOLOGY COMPARISON	LIFESPAN (APPROXIMATE)	QUANTITY	WATTS PER FIXTURE (APPROXIMATE)	ENERGY SAVINGS* (APPROXIMATE)
1000W METAL HALIDE	12,000 hours	46	1080	
LED UPGRADE 1	60,000–100,000 hours	40	487	55%
		6	311	71%
175W METAL HALIDE	10,000 hours	51	209	
LED UPGRADE 2	50,000 hours	51	35	83%

* Annual savings are on a per fixture basis before taking dimming into account.

☐ OLD TECHNOLOGY ☒ NEW TECHNOLOGY



Seattle City Light is dedicated to exceeding our customers' expectations in producing and delivering environmentally responsible, safe, low-cost and reliable power.

This program may change without notice and is subject to the availability of funds.

Note: Ask your accountant about additional federal tax incentives that may be available for energy-efficient upgrades.

♻️ Printed on recycled paper made from 30% post-consumer waste fiber and manufactured with 100% renewable electricity.

SLD CS_WV 082515